
INTRAOSSEOUS INFUSION (IO)

FIELD ASSESSMENT/TREATMENT INDICATIONS

Primary vascular access in cardiac arrest patients 8 years of age and younger
Patient unresponsive and venous access unavailable by any other means

CONTRAINDICATIONS

Fracture of target bone
Previous IO attempt and marrow entry at target site

PROCEDURE

1. Select and prep the following preferred sites for patient age
 - a. 8 Years of Age and younger - Anterior medial surface of tibia, 2cm below tibial tuberosity
 - b. 9 Years of Age and older - Lower end of tibia, 2cm above the medial malleolus
 - c. Base Hospital Contact - Anterior distal femur, 2cm above the patella
2. Utilizing appropriate sized IO needle for age, apply downward pressure in a twisting motion perpendicular to the surface of target site. Upon entrance into medullary cavity slightly advance needle 1-2mm.
3. Confirm placement by:
 - a. Needle stands upright without support
 - b. Aspiration of blood/marrow or able to instill fluid bolus without s/s of extravasation
 - c. Ability to infuse IV solution without s/s of extravasation
4. Leave site uncovered and attach IV extension and attach IV extension tubing with stopcock directly to IO needle, and hinge tape regular IV tubing to extremity to secure site.
5. Infusion may need to be pressurized using syringe or pressure bag device.
6. Contact Base Hospital if patient condition indicates use of Dopamine in patients 9 years of age or older.

DOCUMENTATION

Upon arrival at the receiving hospital, the Advanced Skills Evaluation Form on the back of the yellow copy of the O1A Form or electronic equivalent must be filled out and signed by the receiving physician. This form must then be forwarded to ICEMA within one week by either the PLN at the receiving facility if it is a Base Hospital or by the EMT-P's Agency EMS/QI Coordinator.